

Product datasheet for SC323055

ACADM (NM_001127328) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACADM (NM_001127328) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACADM
Synonyms:	ACAD1; MCAD; MCADH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC323055 representing NM_001127328. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGCGGGTTCGGGCGATGCTGCAGGTGTTCTTTACAGGTCCTGAGAAGTATTTCTCGTTTTTCAT
TGGAGATCACAGCATACAAAAGCCAATCGACAACGTGAACCAGGATTAGGATTTAGTTTTGAGTTCACC
GAACAGCAGAAAAGAAATTTCAAGCTACTGCTCGTAAATTTGCCAGAGAGGAAATCATCCCAGTGGCTGCA
GAATATGATAAACTGGTGAATATCCAGTCCCCCTAATTAGAAGAGCCTGGGAAC TTGGTTAATGAAC
ACACACATTCCAGAGAACTGTGGAGTCTTGGACTTGGAACTTTTGATGCTTGTTAATTAGTGAAGAA
TTGGCTTATGGATGTACAGGGTTCAGACTGCTATTGAAGGAAATCTTTGGGGCAAATGCCTATTATT
ATTGCTGGAAATGATCAACAAAAGAAGAAGTATTTGGGGAGAATGACTGAGGAGCCATTGATGTGTGCT
TATTGTGTAACAGAACCTGGAGCAGGCTCTGATGTAGCTGGTATAAAGACCAAAGCAGAAAAGAAAGGA
GATGAGTATATTATTAATGGTCAGAAGATGTGGATAACCAACGGAGGAAAAGCTAATTGGTATTTTTTA
TTGGCAGGTTCTGATCCAGATCCTAAAGCTCCTGCTAATAAAGCCTTTACTGGATTTCATTGTGGAAGCA
GATACCCAGGAATTCAGATTGGGAGAAAGGAATTAACATGGCCAGCGATGTTCCAGATACTAGAGGA
ATTGCTTCGAAGATGTGAAAGTGCCTAAAGAAAATGTTTTAATTGGTGACGGAGCTGGTTTCAAAGTT
GCAATGGGAGCTTTTGATAAAACCAGACCTGTAGTAGCTGCTGGTGTGTTGGATTAGCACAAGAGCT
TTGGATGAAGCTACCAAGTATGCCCTGGAAAGGAAAAC TTTCCGAAAGCTACTTTGATAGCACAAGCA
ATATCATTATGCTGGCTGAAATGGCAATGAAAGTTGAACTAGCTAGAATGAGTTACCAGAGAGCAGCT
TGGGAGGTTGATTCTGGTCGTAACCTATTATGCTTCTATTGCAAAGGCATTTGCTGGAGATATT
GCAAAATCAGTTAGCTACTGATGCTGTGCAGATACTTGGAGGCAATGGATTTAATACAGAATATCCTGTA
GAAAAACTAATGAGGGATGCCAAAATCTATCAGATTTATGAAGGTA CTTCACAAAATCAAAGACTTATT
GTAGCCCGTGAACACATTGACAAGTACAAAAAT TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```



[View online »](#)

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001127328
Insert Size:	1278 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001127328.2
RefSeq Size:	2635 bp
RefSeq ORF:	1278 bp
Locus ID:	34
UniProt ID:	P11310
Cytogenetics:	1p31.1
Protein Families:	Druggable Genome
Protein Pathways:	beta-Alanine metabolism, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway, Propanoate metabolism, Valine, leucine and isoleucine degradation
MW:	47 kDa

Gene Summary:

This gene encodes the medium-chain specific (C4 to C12 straight chain) acyl-Coenzyme A dehydrogenase. The homotetramer enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Defects in this gene cause medium-chain acyl-CoA dehydrogenase deficiency, a disease characterized by hepatic dysfunction, fasting hypoglycemia, and encephalopathy, which can result in infantile death. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in an isoform (b) that is longer than isoform a.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.